

SPACE OPERATIONS

Mode: Seminar

Lesson No. 4-26-S

1. Introduction. This lesson is designed to help the student comprehend current U.S. space organizations and capabilities, and analyze space capabilities in terms of military strategy, planning, and operations. This lesson and Lesson 4-25, Information Operations, complement each other. In addition, this lesson complements a Commandant's Lecture Series (CLS) presentation on 9 January 2002.

a. The lesson will first consist of a film, followed by the FI leading a discussion of space organizations and capabilities, and will culminate with a discussion of space issues.

b. A number of topics are appropriate for discussion: (1) how U.S. space capabilities support military operations, (2) space organizations (3) future of U.S. space capabilities/current issues, such as National Missile Defense, Space Commission, Weapons in Space.

2. Learning Objectives. To enable students to:

a. Comprehend the unique capabilities and limitations of space forces, and relate to campaign planning.

b. Analyze the responsibilities of space organizations.

c. Comprehend current space issues.

3. Student Requirements.

a. Tasks. Read and be prepared to discuss assigned readings in seminar.

b. Required Readings for Lesson 4-26-S.

(1) Space Commission. Final Report, Commission to Assess United States National Security Space Management and Organization, "Executive Summary," January 11, 2001. (Course 4 Selected Readings, AY02, Implementing National Military Strategy)

(2) Secretary of Defense's response to (1) above, 8 May 2001. (Course 4 Selected Readings, AY02, Implementing National Military Strategy)

(3) Department of Defense. Directive Number 3100.10, SUBJECT: "Space Policy," July 9, 1999. (Course 4 Selected Readings, AY02, Implementing National Military Strategy)

(4) United States Space Command, (USSPACECOM) Brochure. (Course 4 Selected Readings, AY02, Implementing National Military Strategy)

(5) Air University Space Reference Guide. "Annex N - Space," August 2000. (Course 4 Selected Readings, AY02, Implementing National Military Strategy)

(6) "Satellite Box Score," NORAD Web Page, 6 July 2001. (Course 4 Selected Readings, AY02, Implementing National Military Strategy)

c. Suggested Readings for Lesson 4-26-S.

- (1) United States Space Command web site:
<http://www.spacecom.af.mil>.
- (2) U.S. Army Space and Missile Defense Command (SMDC) web site: <http://www.smdc.army.mil>.
- (3) National Reconnaissance Office (NRO) web site:
<http://www.nro.gov/>.
- (4) US Army Command & General Staff College Space Homepage:
<http://www.cgsc.army.mil/djco/spaceops.htm>.
- (5) National Imagery & Mapping Agency (NIMA) web site:
<http://www.nima.mil/>.

4. Points/Questions to Consider.

a. What space assets are available to support the joint force commander? How well do we integrate those assets in our campaign planning?

b. How dependent are we now on space assets, and what is the trend for the future?

c. Space superiority: we have it; we like it; but, how do we keep it? What are the implications to warfighting if we lose it?

d. Should the U.S. develop/deploy weapons in space? Weapons that can destroy targets in space? Weapons that can destroy targets on the earth?

e. What are the implications of the Space Commission?

5. Relationship to Professional Joint Education (PJE) Learning Areas. This lesson supports Learning Areas 4 and 5 (Theater Strategy and Campaigns; Systems Integration on the 21st Century Battlefield); the enduring themes of strategic vision and jointness; and the special themes of Warfare in the 21st Century ("This includes an understanding of the geostrategic impact of the information and space environments on strategy and the art of war."); and, Transformation.

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| a. | PJE LA 4.b. | Lecture, Readings, Points to Consider |
| b. | PJE LA 4.c. | Lecture, Readings, Points to Consider |
| c. | PJE LA 4.d. | Lecture, Readings, Points to Consider |
| d. | PJE LA 4.e | Lecture, Readings, Points to Consider |
| e. | PJE LA 4.f. | Lecture, Readings, Points to Consider |
| f. | PJE LA 5.a. | Lecture, Readings, Points to Consider |
| g. | PJE LA 5.b. | Lecture, Readings, Points to Consider |
| h. | PJE LA 5.c. | Lecture, Readings, Points to Consider |
| i. | PJE LA 5.d. | Lecture, Readings, Points to Consider |

6. Relationship to USAWC Institutional Learning Objectives (ILOs), Enduring and Special Themes.

- a. ILOs: 3, 4, 5, 6, and 7
- b. Enduring Themes: Strategic Vision, Jointness
- c. Special Themes: Warfare in the 21st Century;
Transformation